

# Methyl pinacolyl methylphosphonate

**Other names:** Methylphosphonic acid, methyl (1,2,2-trimethylpropyl) ester  
**Inchi:** InChI=1S/C8H19O3P/c1-7(8(2,3)4)11-12(6,9)10-5/h7H,1-6H3  
**InchiKey:** IVTOWMZA ZSBKOT-UHFFFAOYSA-N  
**Formula:** C8H19O3P  
**SMILES:** COP(C)(=O)OC(C)C(C)(C)C  
**Mol. weight [g/mol]:** 194.21  
**CAS:** 7040-59-7

## Physical Properties

Property code	Value	Unit	Source
log10ws	-3.49		Crippen Method
logp	2.907		Crippen Method
mcvol	161.650	ml/mol	McGowan Method
rinpol	1200.00		NIST Webbook
rinpol	1208.00		NIST Webbook
rinpol	1200.00		NIST Webbook
rinpol	1208.00		NIST Webbook
rinpol	1200.00		NIST Webbook

## Sources

**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C7040597&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

**rinpol:** Non-polar retention indices

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